

General Information

Chassis: Euro 2
CRT: A59ECF20X12
Remote Control:
EUR51920
Door Flap:
TKP8E1127
Main Power Button:
TBX8E026

Matrix

Item	See Model
Safety Notes	Panasonic TX-14S1T
Service Mode	Panasonic TX-21AD2
Specifications	Panasonic TX-25MD1
CRT Base Diagram	Panasonic TX-25MD1
Signal Diagram	Panasonic TX-21AD2

Service Adjustments

Safety Precautions

X-Radiation Warning

- 1: The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
- 2: When using a picture tube test jig for service, ensure that the jig is capable of handling 28kV without causing X-Radiation.

Note: It is important to use an accurate periodically calibrated high voltage meter.

- 1: Set the brightness to minimum.
- 2: Measure the high voltage. The meter should indicate 27kV ± 1kV at zero beam current, if the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of immediate component failure.

- 3: To prevent an X-Radiation possibility, it is essential to use the specified tube.

Self Check

Self check is used to automatically check the Bus lines and Hexadecimal code of the TV set. To enter the Self Check Mode press the Function Down button on the Pre-set Panel, at the same time pressing the Status button on the remote control, the screen will show:

1 — ok	Tuner	11 — --	Dolby IC for C/R
2 — ok	VIF	12 — ok	P S MODE
3 — ok	EEPROM	13 — ok	P TA0
4 — ok	Sound AV switch1	14 — ok	P TA1
5 — ok	Video AV switch1	15 — ok	P TA2
6 — ok	VDP	16 — ok	P TA3
7 — ok	TPU	17 — ok	P SDA
8 — ok	MSP	18 — ok	P SCL1
9 — --	Dolby Sub	19 — ok	P SCL3
10 — --	Dolby IC for L/R	20 — ok	P SCL4

21 — ok	P SBLD	Hex codes
22 — ok	P OFF	06
23 — ok	P DEFL	CE
24 — ok	P RAM	34
		94
		85

If the CCU ports have been checked and found to be incorrect the "-" will appear in place of "OK".

Adjustments

+B Set-up

Preparation

- 1: Receive a window pattern.
- 2: Set the brightness, contrast and volume to minimum.

Procedure

- 1: Set the +B voltage up as follows: adjust R811 so that B2 shows 147V ± 1V.
- 2: Confirm the following voltages:

B1:	203 ± 10V
B3:	27 ± 1V
B4:	35.5 ± 1V
B5:	15.5 ± 1V
B6:	12 ± 0.5V
B7:	5 + 0.1/-0.25V
B8:	5 ± 0.25V
U33:	31 ± 1V

RF AGC

Preparation

- 1: Receive a test pattern.
- 2: connect an oscilloscope between the tuner RF AGC and ground.
- 3: Set the oscilloscope gain range to 1V/div.

Procedure

- 1: Check that the noise becomes large when the RF AGC VR R126 is turned counter-clockwise. After the check turn it clockwise.
- 2: Gradually turn the RF AGC VR anti-clockwise and set the RF AGC VR to the point where the RF AGC voltage is just falling to a point where this voltage drops by 0.2V from the maximum value.

Cut Off

Preparation

- 1: Receive a window pattern.
- 2: Degauss the tube externally.
- 3: Set the TV into Service Mode 1.
- 4: Select Cut-off DC mode.

Procedure

- 1: Confirm the value is 128 and select Ug2 mode noting colour with the largest value.

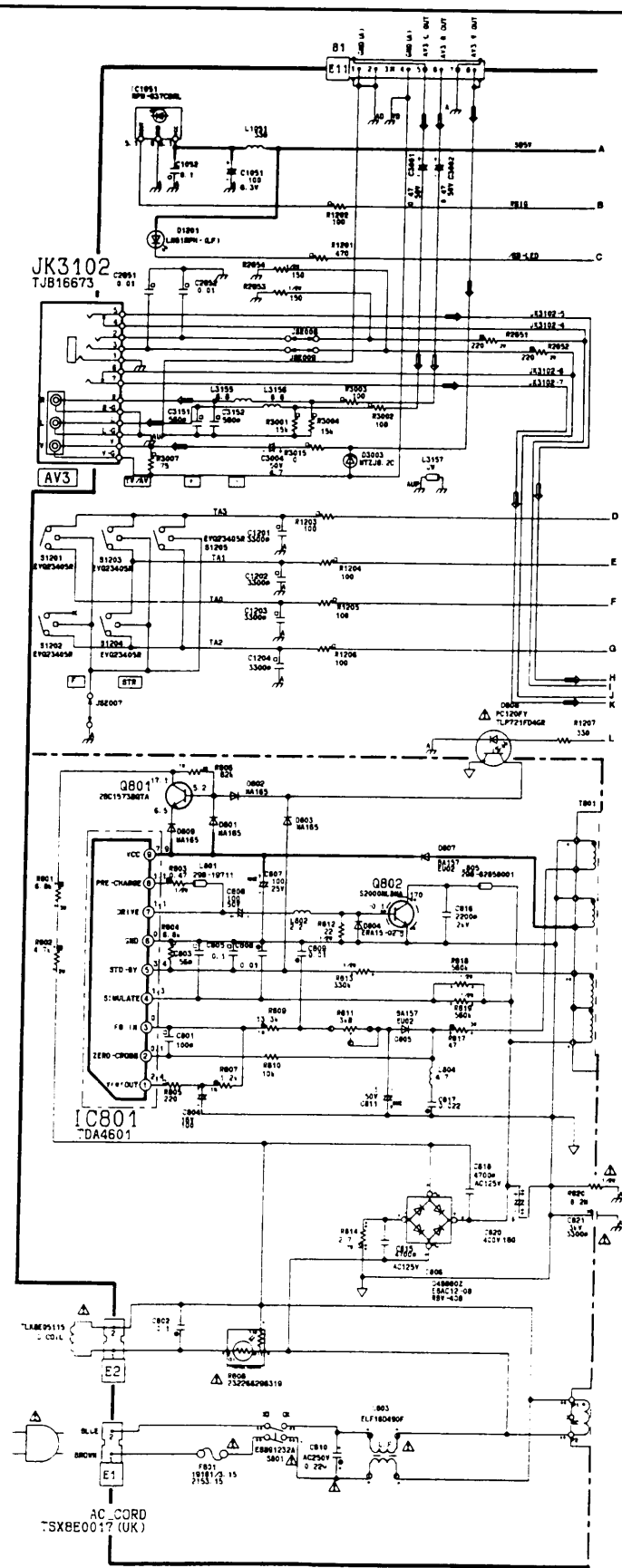
- 2: Turn the screen VR until a colour reaches 20 - 30.
- 3: Connect an oscilloscope to the cathode with the biggest value colour.
- 4: Select Cut-off DC mode and adjust Cut-off pulse to 159V ± 5V.
- 5: Disconnect the oscilloscope and adjust the screen to whichever colour reaches 50 ± 10 first.

Recommended Safety Parts

Item	Part No.	Description
	TQB8E2029-2	Inst. Book
10	TSX8E0017	Power Cord
2	TKY8E040	Cabinet
3	A59ECF20X12	CRT
5	TNP117070AA	Y P. C. B.
7	TKU8E00190	Rear Cover
8	TNP117064AA	B P. C. B.
9	TNP197091AX	E P. C. B.
C360	ECKC3D152J	Ceramic 2KV 1.5nF
C554	ECWF2H514J	Film 500V 510nF
C555	ECWH12H103J	Film 1250V 10nF
C559	ECWF2H684J	Film 500V 680nF
C562	ECKC2H101J	Ceramic 500V 100pF
C802	ECQE6104K	Film 600V 100nF
C815, C818, C909, C910	ECKC2H472J	Ceramic 500V 4.7nF
C816	ECKC3D222JB	Ceramic 2KV 2200pF
C820	ECOS2GG181NG	Elect 400V 180µF
C821	ECKCNS332J	Ceramic 1.2KV 3.3nF
C851	ECKC2H681J	Ceramic 500V 680pF
C855	ECKC3D471JB	Ceramic 2KV 470pF
F801	19181-3.15	Fuse
F851	TR5-T1250	Fuse
F852, F853	TR5-T2000	Fuse
R1260	ERDS1FJ121	Carbon 0.5W 5% 12 Ω
R2651, R2652	ERG2FJ221	Metal 2W 5% 220 Ω
R464	ERW12PKR68	Wire Wound 0.5W 10% R68 Ω
R466, R467	ERO25CKF1801	Metal 0.25W 1% 1K8 Ω
R507	ERQ14AJ3R3	Metal 0.25W 5% 3R3 Ω
R551	ERW2PKR47	Wire Wound 2W 10% 0R47 Ω
R554	ERQ14AJW101	Metal 0.25W 5% 100 Ω
R701	ERQ12AJ101	Fusible 0.5W 5% 100 Ω
R702	ERQ12HJ330	Metal 0.5W 5% 33 Ω
R703	ERG2FJ821	Metal 2W 5% 820 Ω
R801	ERG3FJ682H	Metal 3W 5% 6K8 Ω
R802	ERG2FJ472	Metal 2W 5% 4K7 Ω
R807	ERO25CKF1201	Metal 0.25W 1% 1K2 Ω
R809	ERO25CKF1332	Metal 0.25W 1% 13K Ω
R813	ERD50FJ334	Carbon 0.5W 5% 330K Ω
R814	ERF7ZK2R7	Wound 7W 20% 2R7 Ω
R817	ERG3FJ470	Metal 3W 5% 47 Ω
R818, R819	ERD50FJ564	Carbon 0.5W 5% 1K Ω
R820	ERD75TAJ825	Carbon 0.75W 5% 8M2 Ω

Recommended Safety Parts Cont'd.

Item	Part No.	Description
R855	ERG2FJ223	Metal 2W 5% 22K Ω
R919, R920	ERQ14AJ390	Fusible 0.25W 5% 39 Ω
R924, R931	ERDS1FJ390	Carbon 0.5W 5% 39 Ω
R929	ERDS1FJ471	Carbon 0.5W 5% 470 Ω
R932	ERDS1FJ101	Carbon 0.5W 5% 100 Ω
R935	ERQ14AJ3R9	Fusible 0.25W 5% 3R9 Ω
R936	ERQ1CJP331	Metal 1W 330 Ω
R937	ERQ14AJ100	Metal 0.25W 5% 10 Ω
S801	ESB91231A	Switch
TNR001	ENV87880G3	Tuner



Continued at 1

Main Diagram

